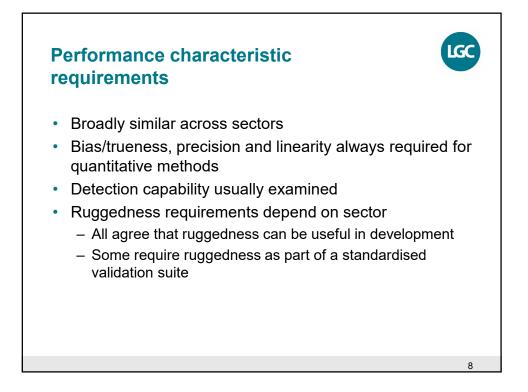


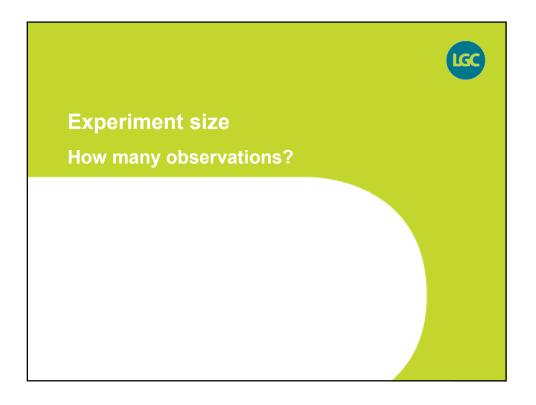
	Type of analytical procedure:						
Performance Characteristics	IDENTIFICATION		IG FOR RITIES	ASSAY			
		quant	limit				
Accuracy	_	+	_	+			
Precision Repeatability	_	+	_	+			
Interm.Precision	_	+ ⁽¹⁾	_	↓ (1)			
Specificity (2)	+	+	+	.+			
Detection Limit	_	_ (3)	+	<u> </u>			
Quantitation Limit	_	+	_	-			
Linearity	_	+	_	+			
Range		+	_	+			

Typical guidance on characteristics for

Table 3 – Extent of validation The of the sector [13]. 'x' signal sector [13]. 'x' signal sector [13].							
	Type of analytical application						
Performance characteristic	Identification test	Quantitative test for impurity	Limit test for impurity	Quantification of main component			
Selectivity	x	x	x	х			
Limit of detection			х				
Limit of quantification		x					
Working range including linearity		X		х			
Trueness (bias)		X		х			
Precision (repeatability and intermediate precision)		x		х			

Performance		Previous valida	ition
Characteristics	Full ¹	Full ¹ New matrix	Basic (Literature)
Bias	\checkmark	✓	✓
Repeatability	\checkmark	\checkmark	✓
Reproducibility	\checkmark	\checkmark	\checkmark
Linearity	?	?	\checkmark
Ruggedness	-	-	\checkmark
Detection limit	Not n	nentioned – depe	nds on use

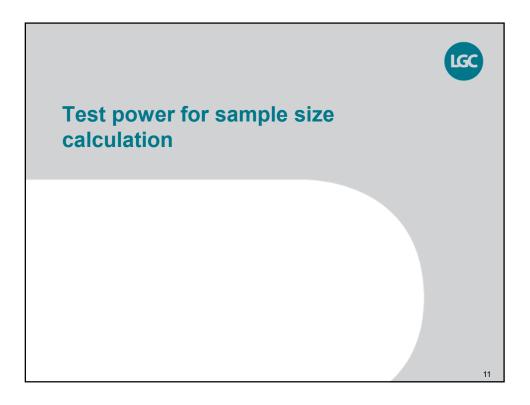


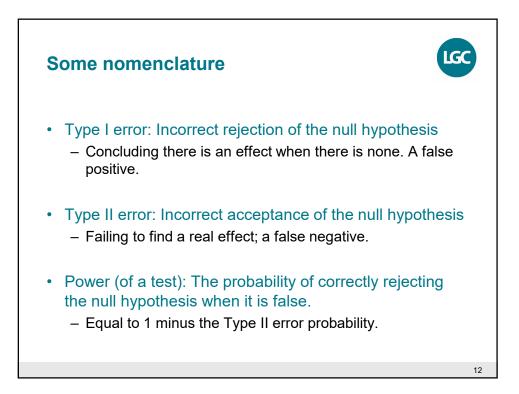


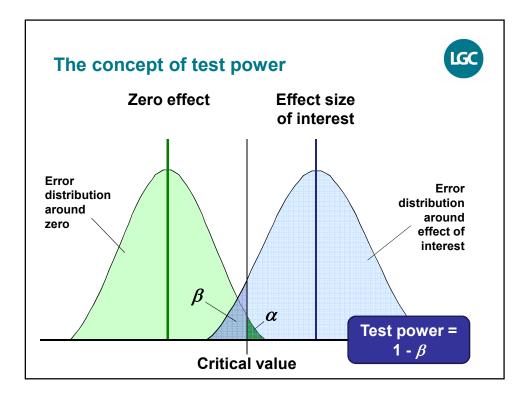
Selected guidance on experiment size

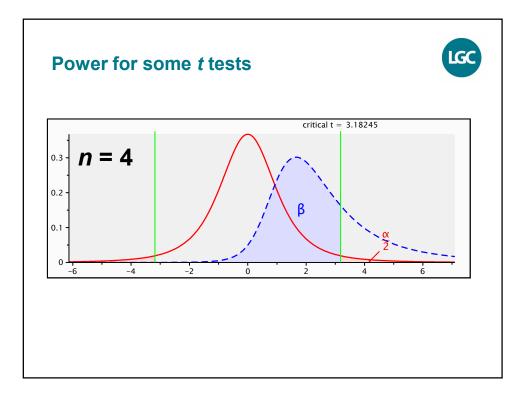
Performance	Guidance document							
Characteristics	ICH Q2	IUPAC SLV	Eurachem					
Bias/Trueness	3 levels in triplicate	-	10 replicates**					
Repeatability	3 levels in triplicate	-	6 – 15 replicates**					
Reproducibility	-	-	6 – 15 in duplicate**					
Linearity	5 levels	6 levels in duplicate	6-10 levels 2-3 times each					
Detection limit	-		10 replicates					
Ruggedness*	_ †+	_ *	- *					
'-' No numerical guida * 'Robustness' in ICH		[‡] Expe	nple conditions suggested rimental designs suggester concentration/material stud					
			10					

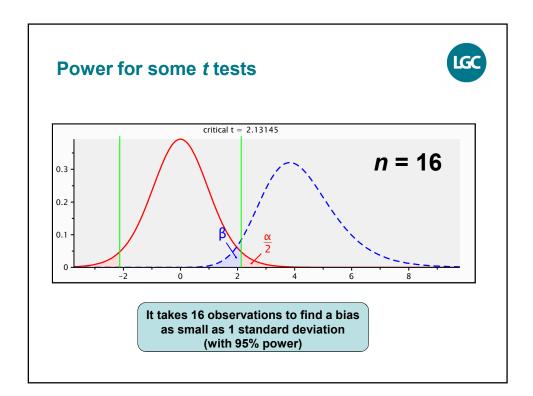
LGC

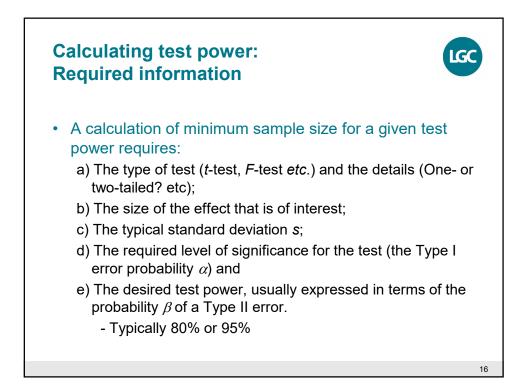


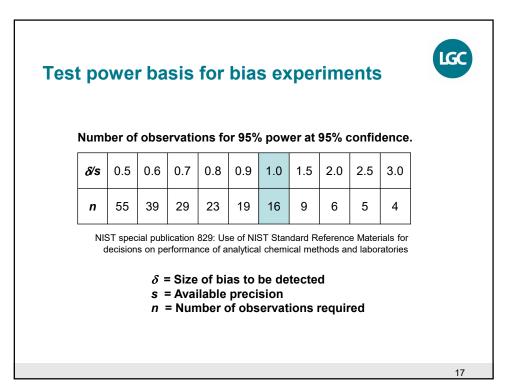


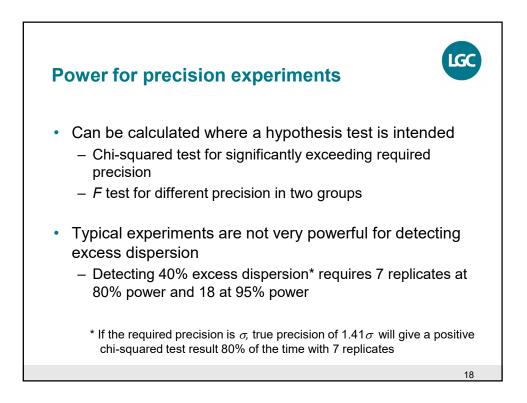


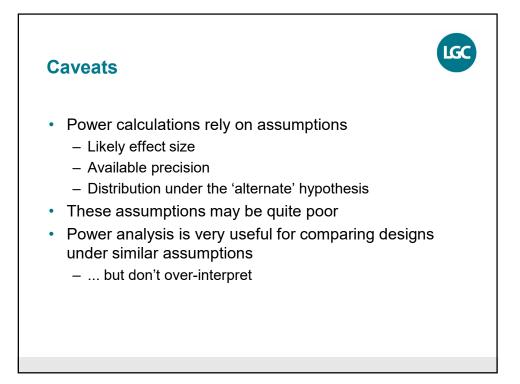


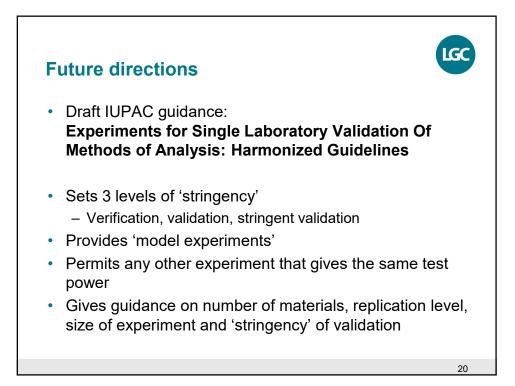




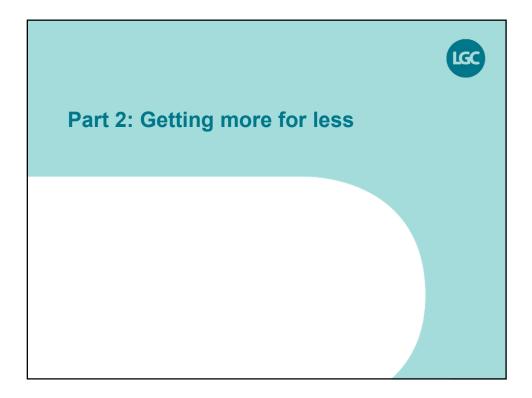


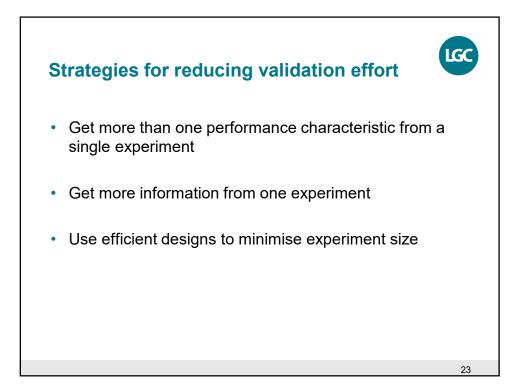


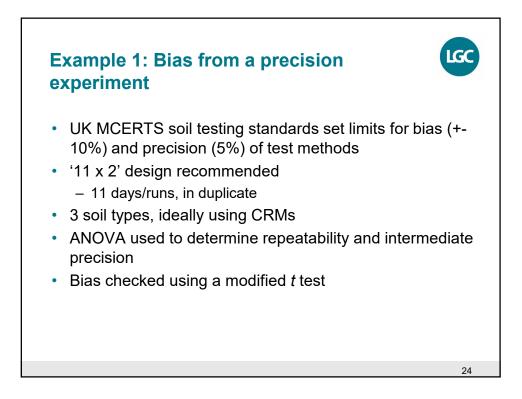


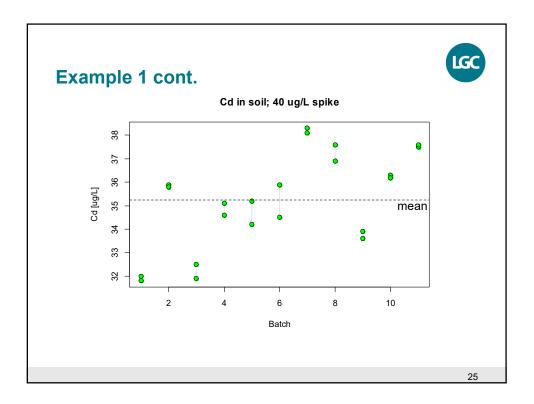


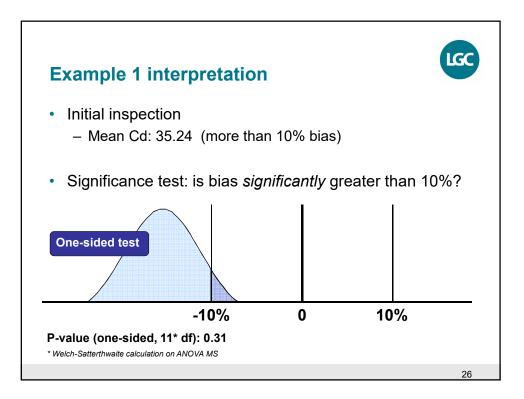
Draft IUPAC guidance – experiment size								
Table 1: Minimum replicationPerformance Characteristic	requirements Verification	Standard validation	Stringent validation					
Applicability								
Selectivity	See Table 2 note 3	4 replicates each on control and interferent- spiked material ^{Note 1}	7 replicates each on control and interferent- spiked material ^{Note 1}	Look out for				
Calibration linearity	4 levels in duplicate	6 levels in duplicate	Either 10 levels in duplicate <i>or5</i> levels in triplicate	IUPAC consultation				
Trueness and/or Recovery	6	10	16					
Precision:								
Repeatability	3	7	18					
Run-to-run (within- laboratory reproducibility) using simple replication	3	7	18					
Run-to-run (within- laboratory reproducibility) using nested design	3 groups of 2	5 groups of 2	12 groups of 2					

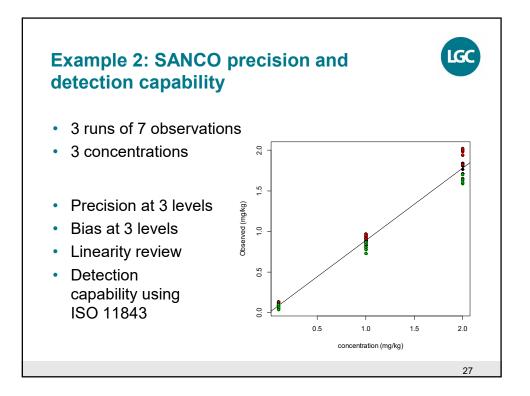


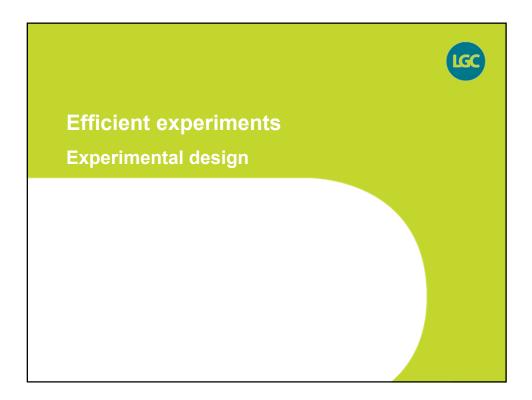


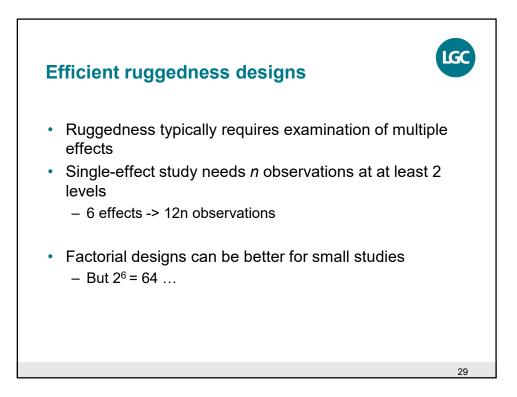












AOAC rec	on	nm	end	ded	l ru	ıgg	ed	nes	ss LGC
lesign									
			Expe	rime	nt nu	mbe	r		
Experimental parameter	1	2	3	4	5	6	7	8	
A or a	Α	Α	Α	А	а	а	а	a	Up to 7 effects in 8
B or b	В	В	b	b	В	В	b	b	runs
C or c	С	с	С	С	С	с	С	с	
D or d	D	D	d	d	d	d	D	D	Equivalent to <i>n</i> = 4 for 7 parameters
E or e	Е	е	Е	е	е	Е	е	Е	
F or f	F	f	f	F	F	f	f	F	
G or g	G	g	g	G	g	G	G	g	
Observed result	s	t	u	v	w	х	У	z	

